Mingxi Yang

List of Publications by Year
in descending order

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		2675	3106
458	41,193	95	187
papers	citations	h-index	g-index

480	480	480	31900
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Highly Photoluminescent Carbon Dots for Multicolor Patterning, Sensors, and Bioimaging. Angewandte Chemie - International Edition, 2013, 52, 3953-3957.	13.8	2,907
2	The photoluminescence mechanism in carbon dots (graphene quantum dots, carbon nanodots, and) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	10.4	2,135
3	Strongly green-photoluminescent graphene quantum dots for bioimaging applications. Chemical Communications, 2011, 47, 6858.	4.1	1,458
4	Surface Chemistry Routes to Modulate the Photoluminescence of Graphene Quantum Dots: From Fluorescence Mechanism to Upâ€Conversion Bioimaging Applications. Advanced Functional Materials, 2012, 22, 4732-4740.	14.9	1,019
5	Carbon Dots: A New Type of Carbon-Based Nanomaterial with Wide Applications. ACS Central Science, 2020, 6, 2179-2195.	11.3	793
6	Evolution and Synthesis of Carbon Dots: From Carbon Dots to Carbonized Polymer Dots. Advanced Science, 2019, 6, 1901316.	11.2	760
7	Common Origin of Green Luminescence in Carbon Nanodots and Graphene Quantum Dots. ACS Nano, 2014, 8, 2541-2547.	14.6	701
8	Nearâ€Infrared Photoluminescent Polymerâ€“Carbon Nanodots with Twoâ€Photon Fluorescence. Advanced Materials, 2017, 29, 1603443.	21.0	645
9	Investigation from chemical structure to photoluminescent mechanism: a type of carbon dots from the pyrolysis of citric acid and an amine. Journal of Materials Chemistry C, 2015, 3, 5976-5984.	5.5	599
10	The Influence of Carboxyl Groups on the Photoluminescence of Mercaptocarboxylic Acid-Stabilized CdTe Nanoparticles. Journal of Physical Chemistry B, 2003, 107, 8-13.	2.6	581
11	Colloidal Selfâ€Assembly Meets Nanofabrication: From Twoâ€Dimensional Colloidal Crystals to Nanostructure Arrays. Advanced Materials, 2010, 22, 4249-4269.	21.0	577
12	Recent progress on the photocatalysis of carbon dots: Classification, mechanism and applications. Nano Today, 2018, 19, 201-218.	11.9	536
13	CsPb_xMn_{1â€“x}Cl₃ Perovskite Quantum Dots with High Mn Substitution Ratio. ACS Nano, 2017, 11, 2239-2247.	14.6	496
14	Design of Metalâ€Free Polymer Carbon Dots: A New Class of Roomâ€Temperature Phosphorescent Materials. Angewandte Chemie - International Edition, 2018, 57, 2393-2398.	13.8	429
15	Carbonâ€Quantumâ€Dotsâ€Loaded Ruthenium Nanoparticles as an Efficient Electrocatalyst for Hydrogen Production in Alkaline Media. Advanced Materials, 2018, 30, e1800676.	21.0	406
16	Polymerâ€Passivated Inorganic Cesium Lead Mixedâ€Halide Perovskites for Stable and Efficient Solar Cells with High Openâ€Circuit Voltage over 1.3 V. Advanced Materials, 2018, 30, 1705393.	21.0	401
17	Photoluminescence mechanism in graphene quantum dots: Quantum confinement effect and surface/edge state. Nano Today, 2017, 13, 10-14.	11.9	387
18	Control the size and surface chemistry of graphene for the rising fluorescent materials. Chemical Communications, 2012, 48, 4527.	4.1	384

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19	Skinâ€Inspired Antibacterial Conductive Hydrogels for Epidermal Sensors and Diabetic Foot Wound Dressings. Advanced Functional Materials, 2019, 29, 1901474.	14.9	371
20	Graphene quantum dots with controllable surface oxidation, tunable fluorescence and up-conversion emission. RSC Advances, 2012, 2, 2717.	3.6	370
21	Assembly-Induced Enhancement of Cu Nanoclusters Luminescence with Mechanochromic Property. Journal of the American Chemical Society, 2015, 137, 12906-12913.	13.7	367
22	Investigation into the fluorescence quenching behaviors and applications of carbon dots. Nanoscale, 2014, 6, 4676.	5.6	360
23	Nonâ€Conjugated Polymer Dots with Crosslinkâ€Enhanced Emission in the Absence of Fluorophore Units. Angewandte Chemie - International Edition, 2015, 54, 14626-14637.	13.8	360
24	High refractive index organicâ€“inorganic nanocomposites: design, synthesis and application. Journal of Materials Chemistry, 2009, 19, 2884.	6.7	344
25	Bioimaging based on fluorescent carbon dots. RSC Advances, 2014, 4, 27184.	3.6	335
26	Hetero-atom-doped carbon dots: Doping strategies, properties and applications. Nano Today, 2020, 33, 100879.	11.9	318
27	Oneâ€Step Hydrothermal Synthesis of Nitrogenâ€Doped Conjugated Carbonized Polymer Dots with 31% Efficient Red Emission for In Vivo Imaging. Small, 2018, 14, e1703919.	10.0	317
28	Single Atom Rutheniumâ€Doped CoP/CDs Nanosheets via Splicing of Carbonâ€Dots for Robust Hydrogen Production. Angewandte Chemie - International Edition, 2021, 60, 7234-7244.	13.8	306
29	Biomassâ€Derived Carbon Dots and Their Applications. Energy and Environmental Materials, 2019, 2, 172-192.	12.8	295
30	Insights into photoluminescence mechanisms of carbon dots: advances and perspectives. Science Bulletin, 2021, 66, 839-856.	9.0	288
31	Antireflective surfaces based on biomimetic nanopillared arrays. Nano Today, 2010, 5, 117-127.	11.9	273
32	Deep Red Emissive Carbonized Polymer Dots with Unprecedented Narrow Full Width at Half Maximum. Advanced Materials, 2020, 32, e1906641.	21.0	271
33	The crosslink enhanced emission (CEE) in non-conjugated polymer dots: from the photoluminescence mechanism to the cellular uptake mechanism and internalization. Chemical Communications, 2014, 50, 13845-13848.	4.1	245
34	Near-infrared emissive carbon dots with 33.96% emission in aqueous solution for cellular sensing and light-emitting diodes. Science Bulletin, 2019, 64, 1285-1292.	9.0	240
35	Photoluminescence and electroluminescence of ZnS:Cu nanocrystals in polymeric networks. Applied Physics Letters, 1997, 70, 2335-2337.	3.3	231
36	Beyond bottom-up carbon nanodots: Citric-acid derived organic molecules. Nano Today, 2016, 11, 128-132.	11.9	229

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37	Piezochromic Carbon Dots with Twoâ€photon Fluorescence. Angewandte Chemie - International Edition, 2017, 56, 6187-6191.	13.8	223
38	Inorganic CsPbI‹sub›2‹/sub›Br Perovskite Solar Cells: The Progress and Perspective. Solar Rrl, 2019, 3, 1800239.	5.8	217
39	Alkylthiol-Enabled Se Powder Dissolution in Oleylamine at Room Temperature for the Phosphine-Free Synthesis of Copper-Based Quaternary Selenide Nanocrystals. Journal of the American Chemical Society, 2012, 134, 7207-7210.	13.7	213
40	Color-Tunable Carbon Dots Possessing Solid-State Emission for Full-Color Light-Emitting Diodes Applications. ACS Photonics, 2018, 5, 502-510.	6.6	206
41	One-step hydrothermal synthesis of photoluminescent carbon nanodots with selective antibacterial activity against Porphyromonas gingivalis. Nanoscale, 2017, 9, 7135-7142.	5.6	201
42	Carbonized Polymer Dots: A Brand New Perspective to Recognize Luminescent Carbon-Based Nanomaterials. Journal of Physical Chemistry Letters, 2019, 10, 5182-5188.	4.6	197
43	Controllable Synthesis of Stable Urchin-like Gold Nanoparticles Using Hydroquinone to Tune the Reactivity of Gold Chloride. Journal of Physical Chemistry C, 2011, 115, 3630-3637.	3.1	196
44	Investigating the surface state of graphene quantum dots. Nanoscale, 2015, 7, 7927-7933.	5.6	196
45	Fullâ€Color Emission Polymer Carbon Dots with Quenchâ€Resistant Solidâ€State Fluorescence. Advanced Science, 2017, 4, 1700395.	11.2	196
46	pH- and Temperature-Sensitive Hydrogel Nanoparticles with Dual Photoluminescence for Bioprobes. ACS Nano, 2016, 10, 5856-5863.	14.6	195
47	Rational Design of Multiâ€Colorâ€Emissive Carbon Dots in a Single Reaction System by Hydrothermal. Advanced Science, 2021, 8, 2001453.	11.2	194
48	The polymeric characteristics and photoluminescence mechanism in polymer carbon dots: A review. Materials Today Chemistry, 2017, 6, 13-25.	3.5	188
49	Monodisperse Silica-Polymer Core-Shell Microspheres via Surface Grafting and Emulsion Polymerization. Macromolecular Materials and Engineering, 2003, 288, 380-385.	3.6	187
50	Bioinspired Waterâ€Vaporâ€Responsive Organic/Inorganic Hybrid Oneâ€Dimensional Photonic Crystals with Tunable Fullâ€Color Stop Band. Advanced Functional Materials, 2010, 20, 3784-3790.	14.9	184
51	A general route to make non-conjugated linear polymers luminescent. Chemical Communications, 2012, 48, 10889.	4.1	183
52	Kilogram-scale synthesis of carbon quantum dots for hydrogen evolution, sensing and bioimaging. Chinese Chemical Letters, 2019, 30, 2323-2327.	9.0	172
53	Muscleâ€Inspired MXene Conductive Hydrogels with Anisotropy and Lowâ€Temperature Tolerance for Wearable Flexible Sensors and Arrays. Advanced Functional Materials, 2021, 31, 2105264.	14.9	171
54	An injectable and thermosensitive hydrogel: Promoting periodontal regeneration by controlled-release of aspirin and erythropoietin. Acta Biomaterialia, 2019, 86, 235-246.	8.3	170

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55	Crosslinkâ€Enhanced Emission Effect on Luminescence in Polymers: Advances and Perspectives. Angewandte Chemie - International Edition, 2020, 59, 9826-9840.	13.8	169
56	Rational Design of Multicolorâ€Emitting Chiral Carbonized Polymer Dots for Fullâ€Color and White Circularly Polarized Luminescence. Angewandte Chemie - International Edition, 2021, 60, 14091-14099.	13.8	168
57	Preparation and characterization of ZnSâ€“polymer nanocomposite films with high refractive index. Journal of Materials Chemistry, 2003, 13, 2189-2195.	6.7	163
58	Multiplexed NIRâ€II Probes for Lymph Nodeâ€Invaded Cancer Detection and Imagingâ€Guided Surgery. Advanced Materials, 2020, 32, e1907365.	21.0	163
59	Sensitive and Stable 2D Perovskite Singleâ€Crystal Xâ€ray Detectors Enabled by a Supramolecular Anchor. Advanced Materials, 2020, 32, e2003790.	21.0	159
60	Carbon dots as a new class of nanomedicines: Opportunities and challenges. Coordination Chemistry Reviews, 2021, 442, 214010.	18.8	158
61	Colloidal cholesteric liquid crystal in spherical confinement. Nature Communications, 2016, 7, 12520.	12.8	157
62	Contribution of Metal Defects in the Assembly Induced Emission of Cu Nanoclusters. Journal of the American Chemical Society, 2017, 139, 4318-4321.	13.7	152
63	Colloidal Synthesis of Ultrathin Monoclinic BiVO₄ Nanosheets for Z-Scheme Overall Water Splitting under Visible Light. ACS Catalysis, 2018, 8, 8649-8658.	11.2	151
64	Unraveling Bright Moleculeâ€Like State and Dark Intrinsic State in Greenâ€Fluorescence Graphene Quantum Dots via Ultrafast Spectroscopy. Advanced Optical Materials, 2013, 1, 264-271.	7.3	144
65	White Photoluminescent Ti₃C₂ MXene Quantum Dots with Twoâ€Photon Fluorescence. Advanced Science, 2019, 6, 1801470.	11.2	143
66	High refractive index thin films of ZnS/polythiourethane nanocomposites. Journal of Materials Chemistry, 2003, 13, 526-530.	6.7	142
67	Aspirin-Based Carbon Dots, a Good Biocompatibility of Material Applied for Bioimaging and Anti-Inflammation. ACS Applied Materials & Interfaces, 2016, 8, 32706-32716.	8.0	140
68	Fe₃O₄@polydopamine Composite Theranostic Superparticles Employing Preassembled Fe₃O₄ Nanoparticles as the Core. ACS Applied Materials & Interfaces, 2016, 8, 22942-22952.	8.0	135
69	Patterning Colloidal Crystals and Nanostructure Arrays by Soft Lithography. Advanced Functional Materials, 2010, 20, 3411-3424.	14.9	133
70	Research on Preparation, Structure and Properties of TiO2/Polythiourethane Hybrid Optical Films with High Refractive Index. Macromolecular Materials and Engineering, 2003, 288, 717-723.	3.6	124
71	Simple Synthesis of Highly Luminescent Water-Soluble CdTe Quantum Dots with Controllable Surface Functionality. Chemistry of Materials, 2011, 23, 4857-4862.	6.7	124
72	Investigation of photoluminescence mechanism of graphene quantum dots and evaluation of their assembly into polymer dots. Carbon, 2014, 77, 462-472.	10.3	124

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73	One-Step Preparation of Cesium Lead Halide CsPbX₃ (X = Cl, Br, and I) Perovskite Nanocrystals by Microwave Irradiation. ACS Applied Materials & Interfaces, 2017, 9, 42919-42927.	8.0	117
74	Hydrothermal Addition Polymerization for Ultrahighâ€Yield Carbonized Polymer Dots with Room Temperature Phosphorescence via Nanocomposite. Chemistry - A European Journal, 2018, 24, 11303-11308.	3.3	117
75	Advanced functional polymer materials. Materials Chemistry Frontiers, 2020, 4, 1803-1915.	5.9	117
76	Carbon Dots in Bioimaging, Biosensing and Therapeutics: A Comprehensive Review. Small Science, 2022, 2, .	9.9	117
77	Enhanced Biocompatibility of PLGA Nanofibers with Gelatin/Nano-Hydroxyapatite Bone Biomimetics Incorporation. ACS Applied Materials & Interfaces, 2014, 6, 9402-9410.	8.0	116
78	A new type of polymer carbon dots with high quantum yield: From synthesis to investigation on fluorescence mechanism. Polymer, 2017, 116, 472-478.	3.8	116
79	Recent Advances in Energy Conversion Applications of Carbon Dots: From Optoelectronic Devices to Electrocatalysis. Small, 2020, 16, e2001295.	10.0	113
80	Photothermal-Activatable Fe₃O₄ Superparticle Nanodrug Carriers with PD-L1 Immune Checkpoint Blockade for Anti-metastatic Cancer Immunotherapy. ACS Applied Materials & Interfaces, 2018, 10, 20342-20355.	8.0	112
81	Theoretical Understanding of Structureâ€“Property Relationships in Luminescence of Carbon Dots. Journal of Physical Chemistry Letters, 2021, 12, 7671-7687.	4.6	111
82	One-dimensional photonic crystals: fabrication, responsiveness and emerging applications in 3D construction. RSC Advances, 2016, 6, 4505-4520.	3.6	110
83	Supramolecular Cross-Link-Regulated Emission and Related Applications in Polymer Carbon Dots. ACS Applied Materials & Interfaces, 2018, 10, 12262-12277.	8.0	110
84	Hydroxyl decorated g-C3N4 nanoparticles with narrowed bandgap for high efficient photocatalyst design. Applied Catalysis B: Environmental, 2019, 244, 262-271.	20.2	109
85	Halogenâ€Doped Carbon Dots on Amorphous Cobalt Phosphide as Robust Electrocatalysts for Overall Water Splitting. Advanced Energy Materials, 2022, 12, .	19.5	108
86	pH-Dependent Synthesis of Novel Structure-Controllable Polymer-Carbon NanoDots with High Acidophilic Luminescence and Super Carbon Dots Assembly for White Light-Emitting Diodes. ACS Applied Materials & Interfaces, 2016, 8, 4062-4068.	8.0	106
87	Hybridization of inorganic nanoparticles and polymers to create regular and reversible self-assembly architectures. Chemical Society Reviews, 2012, 41, 6066.	38.1	105
88	Bioinspired silicon hollow-tip arrays for high performance broadband anti-reflective and water-repellent coatings. Journal of Materials Chemistry, 2009, 19, 1806.	6.7	104
89	Colorful detection of organic solvents based on responsive organic/inorganic hybrid one-dimensional photonic crystals. Journal of Materials Chemistry, 2011, 21, 1264-1270.	6.7	104
90	Precursor-dependent structural diversity in luminescent carbonized polymer dots (CPDs): the nomenclature. Light: Science and Applications, 2021, 10, 142.	16.6	104

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91	Fluorescent Nanocrystalâ˜Polymer Composites from Aqueous Nanocrystals:Â Methods without Ligand Exchange. Chemistry of Materials, 2005, 17, 4783-4788.	6.7	103
92	Cu²⁺-Loaded Polydopamine Nanoparticles for Magnetic Resonance Imaging-Guided pH- and Near-Infrared-Light-Stimulated Thermochemotherapy. ACS Applied Materials & Interfaces, 2017, 9, 19706-19716.	8.0	103
93	Red-emitting, self-oxidizing carbon dots for the preparation of white LEDs with super-high color rendering index. Science China Chemistry, 2021, 64, 1547-1553.	8.2	103
94	Electronâ€“phonon coupling-assisted universal red luminescence of o-phenylenediamine-based carbon dots. Light: Science and Applications, 2022, 11, .	16.6	102
95	Ultrathin BiOX (X = Cl, Br, I) Nanosheets with Exposed {001} Facets for Photocatalysis. ACS Applied Nano Materials, 2020, 3, 1981-1991.	5.0	100
96	Bioinspired Silica Surfaces with Near-Infrared Improved Transmittance and Superhydrophobicity by Colloidal Lithography. Langmuir, 2010, 26, 9842-9847.	3.5	99
97	Self-Assembly of Nanoclusters into Mono-, Few-, and Multilayered Sheets via Dipole-Induced Asymmetric van der Waals Attraction. ACS Nano, 2015, 9, 6315-6323.	14.6	98
98	Precisely Controllable Coreâ€“Shell Ag@Carbon Dots Nanoparticles: Application to in Situ Super-Sensitive Monitoring of Catalytic Reactions. ACS Applied Materials & Interfaces, 2016, 8, 27956-27965.	8.0	98
99	Graphitic Nitrogen and Highâ€Crystalline Triggered Strong Photoluminescence and Roomâ€Temperature Ferromagnetism in Carbonized Polymer Dots. Advanced Science, 2019, 6, 1801192.	11.2	98
100	Carbon dots for tracking and promoting the osteogenic differentiation of mesenchymal stem cells. Biomaterials Science, 2017, 5, 1820-1827.	5.4	97
101	Hydroquinone-Assisted Synthesis of Branched Auâ€“Ag Nanoparticles with Polydopamine Coating as Highly Efficient Photothermal Agents. ACS Applied Materials & Interfaces, 2015, 7, 11613-11623.	8.0	95
102	Cobalt-Ruthenium Nanoalloys Parceled in Porous Nitrogen-Doped Graphene as Highly Efficient Difunctional Catalysts for Hydrogen Evolution Reaction and Hydrolysis of Ammonia Borane. ACS Sustainable Chemistry and Engineering, 2019, 7, 7014-7023.	6.7	95
103	Recent advances in chiral carbonized polymer dots: From synthesis and properties to applications. Nano Today, 2020, 34, 100953.	11.9	95
104	Carbon quantum dots enhanced the activity for the hydrogen evolution reaction in ruthenium-based electrocatalysts. Materials Chemistry Frontiers, 2020, 4, 277-284.	5.9	95
105	Ethanol-derived white emissive carbon dots: the formation process investigation and multi-color/white LEDs preparation. Nano Research, 2022, 15, 942-949.	10.4	91
106	Carbonized Polymer Dots with Tunable Room-Temperature Phosphorescence Lifetime and Wavelength. ACS Applied Materials & Interfaces, 2020, 12, 38593-38601.	8.0	90
107	A highly efficient overall water splitting ruthenium-cobalt alloy electrocatalyst across a wide pH range via electronic coupling with carbon dots. Journal of Materials Chemistry A, 2020, 8, 9638-9645.	10.3	88
108	Engineering a red emission of copper nanocluster self-assembly architectures by employing aromatic thiols as capping ligands. Nanoscale, 2017, 9, 12618-12627.	5.6	87

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109	Magnetic delivery of Fe₃O₄@polydopamine nanoparticle-loaded natural killer cells suggest a promising anticancer treatment. Biomaterials Science, 2018, 6, 2714-2725.	5.4	86
110	3D porous ZnOâ€“SnS pâ€“n heterojunction for visible light driven photocatalysis. Physical Chemistry Chemical Physics, 2017, 19, 16576-16585.	2.8	86
111	Lanthanide complex/polymer composite optical resin with intense narrow band emission, high transparency and good mechanical performance. Journal of Materials Chemistry, 2003, 13, 2279.	6.7	85
112	Pressure-triggered aggregation-induced emission enhancement in red emissive amorphous carbon dots. Nanoscale Horizons, 2019, 4, 1227-1231.	8.0	85
113	Biomimetic Surfaces for Highâ€Performance Optics. Advanced Materials, 2009, 21, 4731-4734.	21.0	84
114	Polypyrrole-Coated Chainlike Gold Nanoparticle Architectures with the 808 nm Photothermal Transduction Efficiency up to 70%. ACS Applied Materials & Interfaces, 2014, 6, 5860-5868.	8.0	83
115	One-Step Synthesis of High-Quality Gradient CdHgTe Nanocrystals: A Prerequisite to Prepare CdHgTeâ^Polymer Bulk Composites with Intense Near-Infrared Photoluminescence. Chemistry of Materials, 2008, 20, 6764-6769.	6.7	82
116	Polymer carbon dotsâ€”a highlight reviewing their unique structure, bright emission and probable photoluminescence mechanism. Journal of Polymer Science Part A, 2017, 55, 610-615.	2.3	82
117	Synchronously integration of Co, Fe dual-metal doping in Ru@C and CDs for boosted water splitting performances in alkaline media. Applied Catalysis B: Environmental, 2020, 267, 118657.	20.2	82
118	Structure evolution of Prussian blue analogues to CoFe@C coreâ€“shell nanocomposites with good microwave absorbing performances. RSC Advances, 2016, 6, 105644-105652.	3.6	81
119	Oxygen-Defective Ultrathin BiVO₄ Nanosheets for Enhanced Gas Sensing. ACS Applied Materials & Interfaces, 2019, 11, 23495-23502.	8.0	81
120	Spectroscopic studies of the optical properties of carbon dots: recent advances and future prospects. Materials Chemistry Frontiers, 2020, 4, 472-488.	5.9	79
121	Colloidal Selfâ€Assembly of Catalytic Copper Nanoclusters into Ultrathin Ribbons. Angewandte Chemie - International Edition, 2014, 53, 12196-12200.	13.8	78
122	Magnetic targeting enhances the cutaneous wound healing effects of human mesenchymal stem cell-derived iron oxide exosomes. Journal of Nanobiotechnology, 2020, 18, 113.	9.1	78
123	Aggregation and luminescence in carbonized polymer dots. Aggregate, 2022, 3, e169.	9.9	77
124	From planar-heterojunction to nâ€“i structure: an efficient strategy to improve short-circuit current and power conversion efficiency of aqueous-solution-processed hybrid solar cells. Energy and Environmental Science, 2013, 6, 1597.	30.8	74
125	Elevated Ag nanohole arrays for high performance plasmonic sensors based on extraordinary optical transmission. Journal of Materials Chemistry, 2012, 22, 8903.	6.7	73
126	Novel Diabetic Foot Wound Dressing Based on Multifunctional Hydrogels with Extensive Temperature-Tolerant, Durable, Adhesive, and Intrinsic Antibacterial Properties. ACS Applied Materials & Interfaces, 2021, 13, 26770-26781.	8.0	73

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127	Energy Level Modification with Carbon Dot Interlayers Enables Efficient Perovskite Solar Cells and Quantum Dot Based Lightâ€Emitting Diodes. Advanced Functional Materials, 2020, 30, 1910530.	14.9	72
128	Carbon-Dot-Enhanced Electrocatalytic Hydrogen Evolution. Accounts of Materials Research, 2022, 3, 319-330.	11.7	72
129	Preparation and characterization of high refractive index thin films of TiO2/epoxy resin nanocomposites. Journal of Applied Polymer Science, 2006, 102, 1631-1636.	2.6	71
130	Bioinspired polyethylene terephthalate nanocone arrays with underwater superoleophobicity and anti-bioadhesion properties. Nanoscale, 2014, 6, 13845-13853.	5.6	70
131	Plasmonic films based on colloidal lithography. Advances in Colloid and Interface Science, 2014, 206, 5-16.	14.7	70
132	Facile Synthesis of Cuâ€“Inâ€“S/ZnS Core/Shell Quantum Dots in 1-Dodecanethiol for Efficient Light-Emitting Diodes with an External Quantum Efficiency of 7.8%. Chemistry of Materials, 2018, 30, 8939-8947.	6.7	70
133	Engineering the Self-Assembly Induced Emission of Cu Nanoclusters by Au(I) Doping. ACS Applied Materials & Interfaces, 2017, 9, 24899-24907.	8.0	69
134	Reversible â€œOffâ€“Onâ€•Fluorescence of Zn²⁺-Passivated Carbon Dots: Mechanism and Potential for the Detection of EDTA and Zn²⁺. Langmuir, 2018, 34, 7767-7775.	3.5	69
135	Polydopamine-coated Au-Ag nanoparticle-guided photothermal colorectal cancer therapy through multiple cell death pathways. Acta Biomaterialia, 2019, 83, 414-424.	8.3	68
136	Fluorescent non-conjugated polymer dots for targeted cell imaging. Nanoscale, 2016, 8, 9837-9841.	5.6	67
137	Studies on syntheses and properties of episulfide-type optical resins with high refractive index. Journal of Applied Polymer Science, 2003, 89, 2426-2430.	2.6	66
138	Engineering the Photoluminescence of CsPbX₃ (X = Cl, Br, and I) Perovskite Nanocrystals Across the Full Visible Spectra with the Interval of 1 nm. ACS Applied Materials & Interfaces, 2019, 11, 14256-14265.	8.0	66
139	Controlling Flow Behavior of Water in Microfluidics with a Chemically Patterned Anisotropic Wetting Surface. Langmuir, 2015, 31, 4032-4039.	3.5	65
140	Morphological and Interfacial Engineering of Cobalt-Based Electrocatalysts by Carbon Dots for Enhanced Water Splitting. ACS Sustainable Chemistry and Engineering, 2019, 7, 7047-7057.	6.7	65
141	Balloon Inspired Conductive Hydrogel Strain Sensor for Reducing Radiation Damage in Peritumoral Organs During Brachytherapy. Advanced Functional Materials, 2022, 32, .	14.9	65
142	A Universal Approach to Fabricate Various Nanoring Arrays Based on a Colloidalâ€Crystalâ€Assistedâ€Lithography Strategy. Advanced Functional Materials, 2008, 18, 4036-4042.	14.9	64
143	Piezochromic Carbon Dots with Twoâ€photon Fluorescence. Angewandte Chemie, 2017, 129, 6283-6287.	2.0	64
144	Avoiding coffee ring structure based on hydrophobic silicon pillar arrays during single-drop evaporation. Soft Matter, 2012, 8, 10448.	2.7	61

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145	Facile Strategy for Facet Competition Management to Improve the Performance of Perovskite Single-Crystal X-ray Detectors. Journal of Physical Chemistry Letters, 2020, 11, 3529-3535.	4.6	60
146	Magnesium Oxideâ€Assisted Dualâ€Crossâ€Linking Bioâ€Multifunctional Hydrogels for Wound Repair during Fullâ€Thickness Skin Injuries. Advanced Functional Materials, 2021, 31, 2105718.	14.9	60
147	Confined-domain crosslink-enhanced emission effect in carbonized polymer dots. Light: Science and Applications, 2022, 11, 56.	16.6	60
148	Solidâ€State Red Laser with a Single Longitudinal Mode from Carbon Dots. Angewandte Chemie - International Edition, 2021, 60, 25514-25521.	13.8	59
149	Efficient polymer/nanocrystal hybrid solar cells fabricated from aqueous materials. Energy and Environmental Science, 2011, 4, 2831.	30.8	58
150	Cupreous Complex-Loaded Chitosan Nanoparticles for Photothermal Therapy and Chemotherapy of Oral Epithelial Carcinoma. ACS Applied Materials & Interfaces, 2015, 7, 20801-20812.	8.0	58
151	Micro-/nanostructures meet anisotropic wetting: from preparation methods to applications. Materials Horizons, 2020, 7, 2566-2595.	12.2	58
152	Polymer Bragg stack as color tunable photonic paper. Journal of Materials Chemistry, 2012, 22, 7887.	6.7	57
153	Surface Ligand Dynamics-Guided Preparation of Quantum Dotsâ€“Cellulose Composites for Light-Emitting Diodes. ACS Applied Materials & Interfaces, 2015, 7, 15830-15839.	8.0	57
154	Design of Metalâ€Free Polymer Carbon Dots: A New Class of Roomâ€Temperature Phosphorescent Materials. Angewandte Chemie, 2018, 130, 2417-2422.	2.0	55
155	Mimicking the Rice Leafâ€”From Ordered Binary Structures to Anisotropic Wettability. Langmuir, 2010, 26, 14276-14283.	3.5	54
156	Iron oxide nanoparticles promote the migration of mesenchymal stem cells to injury sites. International Journal of Nanomedicine, 2019, Volume 14, 573-589.	6.7	54
157	Biomimetic Composite Scaffolds to Manipulate Stem Cells for Aiding Rheumatoid Arthritis Management. Advanced Functional Materials, 2019, 29, 1807860.	14.9	54
158	Inverted Hybrid Solar Cells from Aqueous Materials with a PCE of 3.61%. Advanced Energy Materials, 2013, 3, 433-437.	19.5	52
159	Facile construction of carbon dots via acid catalytic hydrothermal method and their application for target imaging of cancer cells. Nano Research, 2016, 9, 214-223.	10.4	51
160	Synthesis of ginsenoside Re-based carbon dots applied for bioimaging and effective inhibition of cancer cells. International Journal of Nanomedicine, 2018, Volume 13, 6249-6264.	6.7	51
161	Fabrication of CdTe nanoparticles-based superparticles for an improved detection of Cu²⁺and Ag⁺. Journal of Materials Chemistry, 2012, 22, 2679-2686.	6.7	50
162	A novel fluorescent retrograde neural tracer: cholera toxin B conjugated carbon dots. Nanoscale, 2015, 7, 15635-15642.	5.6	50

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